

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1. (Currently Amended) A system for verifying the composition of chemical substances comprising:

an ultraviolet fluorescence detector;

a processor coupled to the ultraviolet fluorescence detector, the processor receiving spectral data from the ultraviolet fluorescence detector; and

a database including predetermined signature data for a plurality of ~~predetermined~~ chemical substances,

wherein the plurality of chemical substances comprises at least one of a drug, a medication, a compounded medication, a compounded chemical formulation, a controlled substance, a narcotic, an illegal drug, an alcohol, a food product and a perfume.

Claim 2. (Original) The system according to claim 1, wherein the ultraviolet fluorescence detector includes:

an excitation light source;

a sample receiving platform capable of receiving excitation light from said excitation light source;

an ultraviolet light detector for receiving induced fluorescent energy; and

an analysis module for matching said induced fluorescent ultraviolet energy against a previously determined signature spectrum.

Claim 3. (Original) The system according to claim 1, wherein the signature data includes data for at least one of a drug, a medication, a compounded medication, a compounded chemical formulation, a controlled substance, a narcotic, an illegal drug, an alcohol, a food product and a perfume.

Claim 4. (Currently Amended) A method for verifying the composition of at least one chemical substance, comprising the steps of:

measuring induced fluorescent energy of at least one chemical substance;
accessing a database of predetermined fluorescent signatures of chemical substances; and
comparing the measured induced fluorescence energy of said at least one chemical substance against the predetermined fluorescent signatures of said accessed database of a plurality of chemical substances,

wherein the plurality of chemical substances comprises at least one of a drug, a medication, a compounded medication, a compounded chemical formulation, a controlled substance, a narcotic, an illegal drug, an alcohol, a food product and a perfume.

Claim 5. (Original) The method for verifying the composition of at least one chemical substance of claim 4, wherein said step of measuring induced fluorescent energy of said at least one chemical substance includes scanning said at least one chemical substance.

Claim 6. (Original) The method for verifying the composition of at least one chemical

substance of claim 4, further comprising at least one of the steps of:

measuring said at least one chemical substance with a fluorescence inducing device;

measuring said at least one chemical substance when said chemical substance is being
manufactured;

measuring said at least one chemical substance before said at least one chemical
substance is packaged;

measuring said at least one chemical substance after said at least one chemical substance
has been packaged;

measuring said at least one chemical substance when said at least one chemical substance
is received at a distribution point;

measuring said at least one chemical substance when said at least one chemical substance
is dispensed from a distribution point;

measuring said at least one chemical substance before said at least one chemical
substance is administered;

measuring said at least one chemical substance before said at least one chemical
substance is consumed; and

measuring said at least one chemical substance before said at least one chemical
substance is disposed.

Claim 7. (Original) The method for verifying the composition of at least one chemical
substance of claim 4, further comprising at least one of the steps of:

- storing said measured induced fluorescent energy of said chemical;
- updating a database;
- updating a record;
- updating a billing system;
- updating a tracking system;
- verifying the identity of said at least one chemical substance;
- verifying the purity of said at least one chemical substance;
- performing a quality control procedure;
- analyzing raw materials prior to manufacturing said at least one chemical substance;
- identifying the presence of an impurity;
- identifying an impurity;
- identifying a patient;
- identifying a patient's medication profile;
- comparing said at least one chemical substance against a patient's medication profile; and
- identifying at least one unknown chemical substance.

Claim 8. (Original) The method for verifying the composition of at least one chemical substance of claim 4, further comprising at least one of the steps of:

- alerting a user to an error;
- alerting a user to a potential chemical interaction;
- alerting a user to an impurity;

alerting a user to a unmatched fluorescent signature for said at least one chemical substance; and

alerting a user to an inaccurate concentration of said at least one chemical substance.

• Claim 9. (Original) The method for verifying the composition of at least one chemical substance of claim 4, wherein said system is included in a quality control program.

Claim 10. (Original) The method for verifying the composition of at least one chemical substance of claim 4, wherein said system is included in a chemical substance dispensation protocol.

Claim 11. (Original) The method for verifying the composition of at least one chemical substance of claim 4, wherein said system is included in a chemical substance administration protocol.

Claim 12. (Original) The method for verifying the composition of at least one chemical substance of claim 4, wherein said system is included in a chemical substance disposal protocol.

Claim 13. (Original) The method for verifying the composition of at least one chemical substance of claim 4, wherein said system is included in a law enforcement protocol.

Claim 14. (Original) The method for verifying the composition of at least one chemical substance of claim 4, wherein said at least one chemical substance is at least one of a drug, a medication, a compounded medication, a compounded chemical formulation, a controlled substance, a narcotic, an illegal drug, an alcohol a food product and a perfume.